

## Electronic Acknowledgement Receipt

<b>EFS ID:</b>	1999404
<b>Application Number:</b>	10773054
<b>International Application Number:</b>	
<b>Confirmation Number:</b>	5481
<b>Title of Invention:</b>	Reliable multicarrier communication in the presence of timing phase error
<b>First Named Inventor/Applicant Name:</b>	Hossein Sedarat
<b>Customer Number:</b>	8791
<b>Filer:</b>	Thomas Ferrill/Deborah McGovern
<b>Filer Authorized By:</b>	Thomas Ferrill
<b>Attorney Docket Number:</b>	6491P076
<b>Receipt Date:</b>	23-JUL-2007
<b>Filing Date:</b>	04-FEB-2004
<b>Time Stamp:</b>	17:09:21
<b>Application Type:</b>	Utility under 35 USC 111(a)

### Payment information:

Submitted with Payment	yes
Payment was successfully received in RAM	\$ 180
RAM confirmation Number	2297
Deposit Account	022666

The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:  
Charge any Additional Fees required under 37 C.F.R. Section 1.16 and 1.17

### File Listing:

Document Number	Document Description	File Name	File Size(Bytes) /Message Digest	Multi Part /.zip	Pages (if appl.)
1	Information Disclosure Statement (IDS) Filed	P076_IDS_Statement_7_23_07.pdf	13684	no	2
			a471d9d505f19e15595c2153c7ad110c028aa119		
Warnings:					
Information:					
This is not an USPTO supplied IDS fillable form					
2	NPL Documents	SEDARAT_Inpulse_Noise_Protection_NPL.pdf	110285	no	4
			03eb77083456d696a86d8db8cc4b602837f0c02e0		
Warnings:					
Information:					
3	NPL Documents	SEDARAT_Multicarrier_Bit_Loading_NPL.pdf	254787	no	5
			06d75c42a1a80dc5c1c995cf2a0d5714171b02		
Warnings:					
Information:					
4	NPL Documents	FISCHER_A_New_Loading_Algorithm_NPL.pdf	238740	no	5
			ea85dd995d25a0d98cd35c78c77c66308e359f		
Warnings:					
Information:					
5	NPL Documents	LAMPE_Performance_Evaluation_NPL.pdf	229051	no	8
			a03ab9b2b3d61d56eb3e4c7199c099e9e518d551		
Warnings:					
Information:					
6	NPL Documents	HENKEL_Maximizing_The_Channel_NPL.pdf	92408	no	5
			1e42be311d5e4beaa0d156154d5dab5097b0d54		
Warnings:					
Information:					
7	NPL Documents	LASHKARIAN_Fast_Algorithm_m_For_Finite_NPL.pdf	281564	no	4
			b79b6873b56232403b3c3854da5311041d435d411		
Warnings:					
Information:					
8	NPL Documents	MELSA_Impulse_Response_Shortening_NPL.pdf	982289	no	11
			55c248088e036c9f3535a35c255b975c976a05076a		
Warnings:					
Information:					

9	NPL Documents	AL_DHAHIR_Optimum_Finite_Length_NPL.pdf	860807 c33c29626300ef90d20668e7539454005b6a27a4	no	9
Warnings:					
Information:					
10	NPL Documents	LEKE_A_Maximum_Rate_Load_NPL.pdf	423210 ba995e6f3a8ed9356e726a1a244e079165e650e	no	5
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11	NPL Documents	BINGHAM_Multicarrier_Modulations_NPL.pdf	956948 61a7332a7a3bca7796cd3d6d96975d5c0db0055	no	8
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Information:					
12	NPL Documents	ARSLAN_Equalization_For_Discrete_NPL.pdf	256936 1ae17009f5e930986a107b4125eb62d195deac	no	13
Warnings:					
Information:					
13	NPL Documents	FARHANG_BOROUJENY_Design_Methods_NPL.pdf	170091 3c30a256a62a1305c25a9e6d59b13e19c3164d5	no	9
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14	NPL Documents	Draft_Standard_Network_and_Customer_NPL.pdf	2001914 6d2b9178656a9ea5dc1abb617633ca97526c1725	no	270
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15	NPL Documents	MILOSEVIC_Simultaneous_Multichannel_Time_NPL.pdf	353741 f9cafe9e576b1b196a479b255e19c61c2560e15b	no	5
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16	NPL Documents	FUKUDA_A_Line_Terminating_LSI_NPL.pdf	585079 f2a21b21961f5c39f41ea856760223a810a5f3e	no	8
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17	NPL Documents	WU_A_Novel_Cost_Effective_NPL.pdf	292186 62541824028a9d3506f5a03193a3427c3a705409	no	4
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Information:					

18	NPL Documents	SONALKAR_Shannon_Capacity_Of_Frequency_NPL.pdf	442836 48ba3f7467ad59028947a813131a523fe60b7b69	no	5
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<b>Information:</b>					
19	NPL Documents	WYGLINSKI_An_Efficient_Bit_Allocation_NPL.pdf	279693 51786814b0d8cd4a41c8569bc71a853b338593d0	no	6
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20	NPL Documents	PEREZ_ALVAREZ_A_Differential_Error_Reference_NPL.pdf	273186 f50f80423352955c39c638516aa3191b3b22c86	no	4
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<b>Information:</b>					
21	NPL Documents	AHMED_Optimal_Transmission_Spectra_NPL.pdf	294170 d57d28b5ecdf1ba07ba010152ab7a53d9ac2d1d	no	5
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<b>Information:</b>					
22	NPL Documents	FRANKLIN_How_DSL_Works_NPL.pdf	475335 d98be4171e97274054a0a0b6c52b7a477724e93390	no	6
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23	Information Disclosure Statement (IDS) Filed	P076_SB08_7_23_07.pdf	78450 79d22ae667b8478e0be7a0d0f82f7c21151ec682	no	3
<b>Warnings:</b>					
<b>Information:</b>					
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24	Fee Worksheet (PTO-06)	fee-info.pdf	8197 f15502b4115c118518518c3a5eda178efc77350a8	no	2
<b>Warnings:</b>					
<b>Information:</b>					
<b>Total Files Size (in bytes):</b>			9955587		

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**New Applications Under 35 U.S.C. 111**

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

**National Stage of an International Application under 35 U.S.C. 371**

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

**New International Application Filed with the USPTO as a Receiving Office**

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.